^{12}C(p,d) 1971Ka56,1974No07

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu	NP A880, 88 (2012)	1-Jan-2011

1967Ch15: ^{12}C(pol. p,d) E=30.3 MeV, measured $\sigma(\theta)$, asymmetry(θ).
1968In02: ^{12}C(p,d) E=185 MeV, measured asymmetry, p(θ).
1968Le01: ^{12}C(p,d) E=100 MeV, measured $\sigma(E_d,\theta)$. ^{11}C deduced levels, relative S.
1969Ba05: ^{12}C(p,d) E=155.6 MeV, measured $\sigma(E_d,\theta)$. ^{11}C deduced levels, J, π, L, S.
1969Li01: ^{12}C(p,d) E=100 MeV. ^{11}C deduced levels, L_N, S. DWBA analysis.
1969Su02: ^{12}C(p,d) E=185 MeV, measured $\sigma(E_d,\theta)$. ^{11}C deduced levels, L_N, S.
1971Az01: ^{12}C(p,d) E=670 MeV, measured $\sigma(E_d)$.
1971Ka56: ^{12}C(p,d) E=185 MeV, measured $\sigma(E_d,\theta)$. ^{11}C deduced levels, J, π, S.
1973Fa10: ^{12}C(p,d) E=185 MeV, measured $\sigma(E_d,\theta)$.
1974Ba58: ^{12}C(p,d) E=700 MeV, measured $\sigma(E_d,\theta)$. ^{11}C levels deduced reaction mechanism.
1974No07: ^{12}C(p,d), measured Q. ^{11}C deduced levels.
1975Ro27: ^{12}C(p,d) E=65 MeV, measured $\sigma(E_d,\theta)$. ^{11}C levels deduced S.
1977Av01: ^{12}C(p,d) E=660 MeV, measured absolute σ.
1980Ho18: ^{12}C(pol. p,d) E=65 MeV, measured $\sigma(\theta)$, analyzing power vs θ. ^{11}C levels deduced S. DWBA analysis.
1980Oh06: ^{12}C(p,d) E=51.93 MeV, measured $\sigma(\theta)$. ^{11}C levels deduced L, transfer j, β, C^2S. DWBA, CCBA analyses.
1980Th01: ^{12}C(p,d) E-800 MeV, measured $\sigma(E_d,\theta)$.
1984Oh06: ^{12}C(pol. p,d) E=500 MeV, measured $\sigma(\theta)$, analyzing power vs θ. ^{11}C level deduced spectroscopic factors. Exact-range DWBA analysis.
1984Sm04: ^{12}C(p,d) E=800 MeV, measured $\sigma(\theta)$, $\sigma(E_d)$. Deduced reaction mechanism. ^{11}C deduced high-spin state population enhancement. DWBA analysis.
1985Se15: ^{12}C(p,d) E=150 MeV, measured charged particle yields.
2005Ki09: ^{12}C(p,d), E=45 MeV; measured deuteron spectra, $\sigma(E,\theta)$.

^{11}C Levels

S from (1975Ro27).
J^π from ENSDF.

E(level)	J^π	S_{rel}	Comments
0	$3/2^-$	100	S_{rel}: C^2S=2.5.
1999.7 *5*	$1/2^-$	17.4	S_{rel}: C^2S=0.61. E(level): from (1974No07). Also see 2000 keV *30* (1971Ka56).
4.30×10^3 *5*	$5/2^-$	<0.06	S_{rel}: C^2S=(0.08). E(level): from (1971Ka56).
4.80×10^3 *5*	$3/2^-$	9.7	S_{rel}: C^2S=0.33. E(level): from (1971Ka56).
6.34×10^3?	$1/2^+$	<0.03	
6.49×10^3 *5*	$7/2^-$	0.6	E(level): from (1971Ka56).
6.92×10^3 *5*	$5/2^+$	0.7	E(level): from (1971Ka56).
7.53×10^3 *5*	$3/2^+$	0.4	E(level): from (1971Ka56).
8.13×10^3 *5*	$3/2^-$	0.7	E(level): from (1971Ka56).
8.43×10^3 *5*	$5/2^-$	0.08	E(level): from (1971Ka56).
8.67×10^3 *8*	$7/2^+$&$5/2^+$		E(level): from (1971Ka56).
9.3×10^3 *1*			E(level): from (1971Ka56).
9.7×10^3 *1*	$(5/2^+)$		E(level): from (1971Ka56). Also see 9.98 MeV *20* (1984Sm04).
10.1×10^3 *2*	$7/2^+$		E(level): from (1971Ka56). Also see 9.98 MeV *20* (1984Sm04).
10.7×10^3 *2*	$9/2^+$		E(level): from (1971Ka56). Also see 10.56 MeV *20* (1984Sm04).

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^{12}C(p,d) 1971Ka56,1974No07 (continued)

^{11}C Levels (continued)

E(level)	Comments
11.0×10^3 *1*	E(level): from (1971Ka56).
11.5×10^3 *2*	E(level): from (1971Ka56).
13.22×10^3 *25*	E(level): from (1984Sm04). Γ: broad.